



# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

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October 21, 2011

John R. Morissette  
Manager-Transmission Siting and Permitting  
Northeast Utilities Service Company  
P.O. Box 270  
Hartford, CT 06141-0270

RE: **LIFE-CYCLE 2011** – Connecticut Siting Council Investigation into the Electric Transmission Line Life-Cycle Costs

Dear Mr. Morissette:

The Connecticut Siting Council (Council) requests your responses to the enclosed questions no later than November 4, 2011. To help expedite the Council's review, please file individual responses as soon as they are available.

Please forward an original and 15 copies to this office and a PDF version to be filed electronically. In accordance with the State Solid Waste Management Plan, the Council is requesting that all filings be submitted on recyclable paper, primarily regular weight white office paper. Please avoid using heavy stock paper, colored paper, and metal or plastic binders and separators. Fewer copies of bulk material may be provided as appropriate.

Yours very truly,

Linda Roberts  
Executive Director

LR/MP

C: Council Members  
Parties and Interveners

**LIFE-CYCLE 2011**  
**CL&P Pre-Hearing Interrogatories, Set Two**

1. Does CL&P believe that its transmission line capital and construction costs are higher than other northeastern utilities?
2. Are there any additional factors not discussed in the 2006 Council interrogatory responses that have impacted CL&P's capital and construction costs for transmission lines? If so, please identify these factors and the impacts they have on transmission line life-cycle costs.
3. Does CL&P believe that its transmission line operating and maintenance (O&M) costs are similar to other northeastern utilities?
4. Are there any additional factors not discussed in the 2006 Council interrogatory responses that have impacted CL&P's O&M costs for transmission lines? If so, please identify these factors and the impacts they have on transmission line life-cycle costs.
5. This question refers to first set of 2011 Council interrogatories. The table CL&P provided as responses to questions 1 and 5 show widely varying O&M costs for overhead and underground transmission lines. The unexpected underground cable failures in 2007 and 2009 are mentioned; however, the O&M costs for both overhead and underground nearly double when looking at 2006 and 2008. Can you please elaborate on the cause of this substantial increase in a 3 year span?
6. Are there any updates or changes to the factors provided in the 2006 Council interrogatories that have an impact on CL&P's overhead transmission line capital costs? If so, please identify these factors and the impacts they have on transmission line life-cycle costs.
7. Are there any updates or changes to the factors provided in the 2006 Council interrogatories that have an impact on CL&P's underground transmission line capital costs? If so, please identify these factors and the impacts they have on transmission line life-cycle costs.
8. Since the 2006 Council interrogatories, have there been any updates or changes regarding CL&P's overall philosophy related to siting and constructing new transmission lines?
9. Specifically, in response to the 2006 Council interrogatories, CL&P stated that there were problems with "multiple, overlapping, and sometimes conflicting permitting requirements." Is this still the case or has that situation been mitigated or resolved?
10. Are there any updates or changes to the coordination of transmission and distribution planning activities within CL&P or in conjunction with the ISO New England Regional System Planning process? If so, please discuss the changes and the impacts they have on transmission line life-cycle costs.
11. Since the 2006 Council interrogatories, have there been any significant changes in the costs of right-of-way for underground or overhead transmission lines? If so, please discuss the nature and extent of these changes.

12. Has CL&P's vegetation management practices changed in any way since the 2006 Council interrogatories? If so, please describe these changes and their effect on transmission line life-cycle costs.
13. Has CL&P's use of herbicides or growth retardants changed in any way since the 2006 CSC interrogatories? If so, please describe these changes and their effect on transmission line life-cycle costs.
14. Have there been any additional regulations, policy changes or other factors that may impact the environmental or safety costs associated with CL&P's use of herbicides or growth retardants? If so, please identify the regulations or policy changes and discuss the effects they have had on life-cycle costs.
15. Please provide updated costs per mile for CL&P's vegetation management activities for transmission line rights-of-way.
16. In CL&P's response to Question 14 of the first set of 2011 Council interrogatories, it was indicated that the Installed Costs shown in Table 5-4 of the 2007 Life Cycle Report should be reviewed. Does CL&P or Northeast Utilities have Installed Cost figures that it believes are more reflective of the installed costs for HVDC lines in Connecticut or the Northeast? If so, provide such figures.
17. This question refers to the first set of 2011 CSC Interrogatories. In CL&P's response to Question 15, CL&P indicated that it has now standardized the use of ACSS conductors as opposed to ACSR. Does CL&P believe that this will have a significant impact on transmission life-cycle costs?
18. It has been brought to our attention that figure 8.3, "Magnetic Field Profiles for Typical 115kV HPFF Line" in the 2007 Life-cycle report may not be correct and does not adequately account for the cancellation effects of the steel pipe. Do you agree with this statement?
19. If so, please provide any similar information CL&P may regard as typical magnetic field profiles for underground HPFF cable installations. This may include test reports or other measurements of electro-magnetic fields at various distances from the center of the right-of-way.

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SERVICE LIST**

Status	Status Holder (name, address, & phone number)	Representative (name, address, & phone number)
<b>PARTY</b> (granted on 9/8/11)	The Connecticut Light and Power Company (CL&P)  <input checked="" type="checkbox"/> E-mail   <input checked="" type="checkbox"/> U.S. mail   <input checked="" type="checkbox"/> U.S. mail	John R. Morissette Manager-Transmission Siting and Permitting Northeast Utilities Service Company P.O. Box 270 Hartford, CT 06141-0270 (860) 665-2036 <a href="mailto:morisjr@nu.com">morisjr@nu.com</a>  Jeffery D. Cochran, Esq. Senior Counsel Northeast Utilities Service Company P.O. Box 270 Hartford, CT 06141-0270 (860) 665-5513 (860) 665-5504 fax <a href="mailto:cochrjd@nu.com">cochrjd@nu.com</a>  Anthony M. Fitzgerald, Esq. Carmody & Torrance LLP 195 Church Street P.O. Box 1950 New Haven, CT 06509-1950 (203) 777-5501 (203) 784-3199 fax <a href="mailto:afitzgerald@carmodylaw.com">afitzgerald@carmodylaw.com</a>
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	Public Utilities Regulatory Authority (PURA)	<b>INTERDEPARTMENTAL</b> Cindy A. Jacobs Dept. of Energy and Environmental Protection Energy & Technology Policy Bureau 10 Franklin Square New Britain, CT 06051 <a href="mailto:Cindy.jacobs@po.state.ct.us">Cindy.jacobs@po.state.ct.us</a>

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